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3. (Pending) The vector of claim 1, wherein said basic amino acid residues are selected from the group consisting of lysine, arginine and ornithine.

4. (Pending) The vector of claim 1, wherein said NLS peptide is selected from the group consisting of a Simian Virus 40 (SV40) large T antigen nuclear localization signal sequence, a polyoma large T antigen nuclear localization signal sequence, an adenovirus E1a nuclear localization signal sequence, and an adenovirus E1b nuclear localization signal sequence.

5. (Pending) The vector of claim 1, wherein said hinge region is comprised of between 6 and 50 amino acid residues.

6. (Pending) The vector of claim 1, wherein said neutral amino acids are selected from the group consisting of glycine, alanine, leucine and isoleucine.

7. (Pending) The vector of claim 1, wherein said NLS peptide is located at the amino terminus of said polypeptide and said polymeric basic amino acid chain is located at the carboxyl terminus.

8. (Pending) The transfection vector of claim 1, further comprising (D) a cell type-specific ligand molecule.

9. (Pending) The transfection vector of claim 1, wherein said DNA structural sequence comprises (a) a segment coding for SV40 large T antigen or polyoma large T antigen and (b) a transcription factor gene.

10. (Pending) A vector according to claim 1, wherein said DNA structural sequence comprises an oncogene.

11. (Pending) A vector according to claim 10, wherein said oncogene is selected from the group consisting of SV40 large T antigen, polyoma large T antigen, adenovirus E1A, adenovirus E1B, v-fms, BC12, myc, and ras.

12. (Amended) A vector according to claim 1, wherein said DNA structural sequence comprises a DNA sequence selected from the group consisting of a dihydrofolate reductase gene [gens] (DHFR), a thymidine kinase gene [gens], a thymidylate synthetase gene, [gene] a DRTF1/E2F transcription factor-encoding DNA sequence, and an E2F transcription factor-encoding DNA sequence.

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